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To AQS Users 1

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Subject System Upgrade to Create Precision Data

AQS Users

At last years AQS Conference, the request was made to change the system to not require the submission of precision transactions for collocated monitors when raw data for both monitors is reported. Our goal was to complete this modification before the conference next month but the work has been delayed.

In order for this process to work successfully, the Monitor Collocated Period must be populated to designate collocated monitors and the period that they were collocated. I have prepared the procedure below to assist in the creation of the batch transactions to update the monitor collocation period. By updating this information in advance, when the software is finished, a script can be run to automatically create precision data for all monitors flagged as collocated and where the raw data for both monitors has been reported. If the precision data has been previously reported, it will not be over written. Submission of precision data for collocated monitors will not be necessary after this software modification has been implemented.

Steps to create transaction "MJ" Monitor Collocated Period Transactions:

1. Access the AQSPROD database with Discoverer to create an excel file that can be used to create transactions.
2. Execute the Discoverer query "PM25_Collocation.dis" that has been shared with you by user "GSJ". The query contains 3 different sheets: (1) Existing "MJ" Data, (2) PM25 Sample Periods, and (3) Screening Group Name. Since the transactions will need to be updated by screening group, the monitor selection is by screening group number. The sheet "Screening Group Name" can be used to determine what your screening group number is if you do not know it. The first sheet will list any monitor collocated date that is currently in the database. The second sheet (PM25 Sample Periods) will list all PM2.5 monitors for POC = 1 and 2. These are the monitors that should be collocated. The sampling begin/end dates are included as default dates for the collocation periods.
3. Export the results from sheet 2 to an excel file for editing.
4. Open the sheet with excel and begin the editing as follows:
 - a. Delete all monitors that are not collocated (POC =2 is missing). All sites should have both a POC= 1 and 2 after this step.
 - b. Change individual columns to match the transaction format as follows:
 - (1) Highlight column A, go to format cells, change to "text", enter "MJ" in the first records, and copy to all remaining records.
 - (2) Change column B to "I" for insert action.
 - (3) Change the date format for columns H and I to YYYYMMDD format by highlight the column, go to Format Cells Custom, and in the type field enter the format yyyymmdd, or select it if previously created. This will convert all of the dates to the correct format. Verify that the monitors were collocated during the complete operational period.
 - (4) Sort the sheet by POC, enter a "Y" in column K for POC =1 (primary sampler) and enter a "N" in column K for POC = 2 (collocated monitor).
 - (5) Change the format of column J to text, delete the entry for all POC=1 and enter the distance of collocated monitor for all POC=2 records.
 - (6) Delete the first header line created by Discoverer.
5. Save the file as a CVS file.
6. Open the file with Word Pad, replace all "," with "|" and save the file.
7. Use the AQSPROD load process to update the collocated monitor database table for your screening group.

If you have any questions, please contact me.

Thanks,
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